

ABSTRACT

A high density storage device packaging apparatus in which storage devices are oriented to have lateral faces parallel to each other and to edges of a module in which the storage devices are mounted. The storage devices are connected to a board contained in the module by a plug-in action. The board contains a controller to control the operation of the storage devices including the READ and WRITE operations. The RSM is capable of holding a large number of storage devices and capable of being inserted into a cabinet by a plug-in connection. The RSM includes a housing that covers and protects the storage devices and includes air channels to allow the storage devices to cool. The invention provides a solution for high density packaging of the storage devices and allows for easy access to the storage devices and allows for replacement of failed storage devices without disruption of the remainder of storage devices in the RSM or in the cabinet.